



**Figure S1.** P450 epoxygenase overexpression mediated by rAAV9 and quantitative analysis of 11,12-EET and 11,12-DHET in cardiac tissues. AMPKα2<sup>+/+</sup> mice were first injected with rAAV2/9-CYP2J2 by caudal vein for 2 weeks, and then exposed to a 14-d continuous infusion of Ang II (1mg•kg<sup>-1</sup>•d<sup>-1</sup>). **(A-D)** The western blot analyses for expression of CYP2J2 in **(A)** heart, **(B)** liver, **(C)** skeletal muscle and **(D)** kidney tissues from AMPKα2<sup>+/+</sup> mice. GAPDH was used as a loading control. **(E-F)** ELISA analysis showed the levels of 11,12-EET and 11, 12-DHET in heart tissues from AMPKα2<sup>+/+</sup> and AMPKα2<sup>-/-</sup> mice (n= 4-5 for each group). (\*P < 0.05 vs control)